

ENGINEER'S OPINION OF PROBABLE COST
MILLER AVENUE WATER LINE IMPROVEMENTS
ARPA REGIONAL WATER SYSTEM IMPROVEMENTS
CROSSVILLE, TENNESSEE
WAUFORD PROJECT NO. 4680

<u>Item</u>	<u>Quantity</u>	<u>Description</u>	<u>Unit Price</u>	<u>Cost</u>
1.	16,900 L.F.	12-inch DIP Water Line	\$200/L.F.	\$3,380,000
2.	100 L.F.	10-inch DIP Water Line	\$175/L.F.	\$17,500
3.	100 L.F.	8-inch DIP Water Line	\$125/L.F.	\$12,500
4.	7 Each	Connection to Existing Facilities	\$10,000/Ea.	\$70,000
5.	17 Each	12-inch Gate Valve Assembly	\$6,000/Ea.	\$102,000
6.	1 Each	8-inch Gate Valve Assembly	\$5,000/Ea.	\$5,000
7.	12 Each	Fire Hydrant Assembly	\$7,500/Ea.	\$90,000
8.	4 Each	Air Release Valve Assembly	\$6,000/Ea.	\$24,000
9.	Lump Sum	Master Meter and Structure	Lump Sum	\$50,000
10.	Lump Sum	Built-in-Place Water Booster Station	Lump Sum	\$1,600,000
11.	880 L.F.	Bored 20-inch Steel Casing Pipe	\$1,000/L.F.	\$880,000
12.	5 Each	Stream Crossing	\$25,000/Ea.	\$125,000
13.	17,000 L.F.	Easement and Roadway Restoration	\$5/L.F.	<u>\$85,000</u>
ESTIMATED CONSTRUCTION COST				\$6,441,000
CONSTRUCTION CONTINGENCIES				<u>\$959,000</u>
1. Budgeted for Construction				\$7,400,000
2. Engineering:				
Preliminary Engineering Report				\$15,000
Permitting				15,000
Design				\$375,000
Bidding and Award				\$10,000
Construction Administration (12 months)				\$96,000
Resident Project Representation (12 months)				\$192,000
Geotechnical Engineering				\$20,000
3. Project Administration				\$225,000
4. Project Contingencies				<u>\$252,000</u>
TOTAL ESTIMATED PROJECT COST				\$8,600,000

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